

# **EX90L**

## Contents

1. Equipment Safety Guidelines
2. Introduction
3. Charging
4. Operating Instructions
5. Battery Performance
6. Battery Removal
7. LED Replacement
8. Specifications
9. Spare Parts
10. Attachments

### 1. Equipment Safety Guidelines

Every year many accidents occur which could have been avoided by a few seconds of thought and adopting a more careful approach when planning a job or simply using equipment. You as the operator can avoid many accidents or even damage to the equipment by observing and following the precautions and instructions contained in this manual. The EX90L Smith Light is orange in colour and is designed as an explosion-proof product for use in potentially explosive atmospheres.

※ Ensure that all operators of the EX90L Smith Light have fully read and understood this manual prior to setting up, installing or operating the equipment.

※ This equipment is only to be operated by a competent person. Testing operators for competence and understanding is recommended.

※ Never allow anyone to operate this equipment if under the influence of alcohol or drugs

※ If the ability of this equipment to carry out its intended function is in doubt then remove it from service and return it to an Authorised distributor for repair. It is important to note that any servicing, maintenance and repairs of the EX90L Smith Light, and battery replacement in the EX90L Smith Light be carried out only by an Authorized Service Agent. Failure to do so may result in this product being non-explosion proof and voiding warranty. This includes LED replacement in the EX90L Smith Light.

※ When charging from mains power ensure that the charging procedure is adhered to. Never recharge the battery in a flammable or explosive atmosphere.

※ Never allow any person to mount, use or charge this equipment until they have developed a thorough understanding of safety precautions and how the EX90L Smith Light operates as it is designed and manufactured as an explosion-proof product.

※ The operator must be aware of the classification of their environment (i.e. explosive gases, flammable atmosphere etc.) to ensure that the EX90L meets their required level of classification as an explosion-proof product.

※ In some States, Territories or work sites operator training or equipment documentation may be required. Please check with your local regulatory authority prior to use. It is good safety practice to train all operators fully on the use of the EX90L Smith Light, and to keep records of this training, including training content. Instructions must be read and understood before operating.

※ All items are to be checked for correct and safe operation and that they are intact and undamaged before using in an Explosive atmosphere or flammable atmosphere area.

※ The EX90L Smith Light uses a specific brand lead acid battery and must only be replaced by an Authorized Service Agent. No other battery may be used in this light unless authorized in writing from the manufacturer.

## 2. Introduction

Thank you for purchasing a Smith Light. The information contained in this manual covers charging, setting up, and using the light. This manual needs to be fully read and understood prior to the light being charged and operated.

The Smith Light EX90L has been developed to help with the lighting needs of explosion proof product applications, to help with the needs of portable lighting within areas that require relevant certified products. The Smith Light removes the need for generators, power extension leads etc; cutting down set up times and running costs.

The information contained within this manual is based on the latest information and technical specifications available at the time of printing. Smith Light reserves the right to make changes to product specifications without notice.

When removing the Smith Light from the packing carton, also remove the protective plastic bag, plastic sheets covering both lenses and dispose in an environmentally correct manner, then follow charging instructions to ensure battery protection, and that the battery is in a fully charged condition.

## 3. Charging

The EX90L Smith Light must be removed from an explosive atmosphere and recharged only in a non-explosive and non-flammable atmosphere, and non-hazardous environment.

i.e. The EX90L is only to be recharged once it has been removed from the explosive, flammable or hazardous atmosphere. The EX90L will not operate when charging. This is a safety feature of this product.

The Smith Light can be recharged in two ways:

1. Mains charger suitable for 240 volt 50Hz supply. The charger should only be used indoors and not exposed to the weather.
2. Solar Panel, this is an option and not included as a standard item. See your local supplier for further detail.

To charge your Smith Light ensure that it is placed on a firm level surface. Open the lid of the Smith Light by pushing the button in the middle of the carry handle, raise the light head and tilt it forward to its maximum angle. Lift the sealed storage lid located inside the body of the Smith Light. The storage area contains the AC charger. Place the relevant end of the charging lead into the socket located at the bottom rear of the Smith Light EX90L. This socket has a keyway which allows easy entry for the plug, turn the circular collar of the plug clockwise and this will lock the plug into place.

※ 240 volt AC: Insert the charger into a safe working AC outlet (outlet needs to be on a protected circuit fused / circuit breaker / RCD). Never charge the unit in a hazardous environment (e.g. a wet environment poses numerous risks including electrocution). The LED indicator located at the rear base of the EX90L, will display a red flashing light to indicate a low battery warning, at this point you will have approximately 30 minutes before the battery will be fully discharged, you must charge within 48 hours to avoid damage to the battery, when recharging, the charging indicator light is positioned on the Transformer (Black Box) connected to the charging cable, this light is RED when is charging when GREEN the battery is fully charged.

Ensure that the light is switched off when recharging. For peak performance we recommend that the Smith Light be kept on charge when not in use. When fully charged it will switch to a trickle mode. If disconnected from charge and not used for prolonged periods the battery will start to discharge, then you must charge the battery at least once every three months.

The cap which covers the charge points must be replaced securely prior to re-use of the EX90L Smith Light.

#### 4. Operating Instructions

When setting up the Smith Light EX90L ensure that it is placed on a firm level surface. Push the button in the middle of the handle and pull the handle upwards to raise to the full height. Once you have released the push button in the middle of the handle, you will hear and feel the pins go into place, remove your finger from the push button and if the handle cannot move up or down you are in the locked position.

The on and off switches for each side of the light head are located on the underside of the light head. There are two switches, the Black main power switch and a Red activation switch. After starting the Black main switch press the Red switch once for the front of the light head only to turn on, press twice for the back of the light head only to turn on, press three times for both front and back to stay on. The red switch will not turn the light completely off, you must press the Black main power switch for complete shutdown.

To close the Smith Light, push the button in the middle of the handle, hold in, lower the lid of the light until the lid meets the top of the light body, release button, and you will hear and feel the locking pins go into place, it is then locked in the closed position.

## 5. Battery Performance

The battery running time\* is as follows:

10-12 hours when using one side of the light head.

5-6 hours when using both sides of the light head.

\*Figures based on a fully charged battery. The light source supplied with the Smith Light, has an approximate service life of 50,000 hours when the light is used in accordance with this manual.

**WARNING:** Never use a non standard charger for the Smith Light EX90L. This may damage the light and void your Warranty, never leave the battery fully discharged, this will damage the battery.

## 6. Battery Removal

Maintenance and repairs of the EX90L Smith Light and battery replacement must only be carried out by an Authorised Service Agent.

## 7. LED Replacement

Maintenance and repairs of the EX90L Smith Light and battery replacement must only be carried out by an Authorised Service Agent. This includes replacement of LEDS.

## 8. Specifications

Model	EX90L	Depth (mm)	220mm
Weight	8.4kg	Voltage AC	230-240 v
Open Height (mm)	888mm	Light Type	LED
Closed Height (mm)	600mm	Lumen	1030 per side
Width (mm)	334mm		

## 9. Spare Parts

Maintenance and repairs of the EX90L Smith Light and battery replacement must only be carried out by an Authorised Service Agent. This includes replacement of LEDS.

#### 10. Attachments

Attachments available for other Smith Light models are not suitable for the EX90L Smith Light as they are not intrinsically safe. Only attachments specified as suitable for the EX90L Smith Light by the manufacturer may be used with this model.